

AMENDMENT

(Amendment according to provision of Article 11)

To Examiner of the Patent Office

1. Indication of International Application

PCT/JP2005/002545

2. Applicant

Name TOYO BOSEKI KABUSHIKI KAISHA
Address 2-8, DojimaHama 2-chome, Kita-ku, Osaka-shi,
Osaka 530-8230 Japan
Nationality Japan Domicile Japan

3. Object of amendment Description

4. Contents of amendment

(1) In the description, page 15, lines 2-3 (page 20, line 34 in the English version), "and melt-flow rate" is to be deleted.

(2) In the description, page 16, lines 26-27 (page 24, line 31 in the English version), "and melt-flow rate" is to be deleted.

(3) In the description, page 17, Table 2 (page 26 in the English version), "Ex. 1" is to be amended to "Ex. 3", "Ex. 2" is to be amended to "Ex. 4", "Comp. Ex. 1" is to be amended to "Comp. Ex. 3" and "Comp. Ex. 2" is to be amended to "Comp. Ex. 4".

5. List of the annexed document

- (1) Description, page 15
(pages 20-21 in the English version)
- (2) Description, page 16
(page 24 in the English version)
- (3) Description, page 17
(page 26 in the English version)

transversely stretched 10-fold in an oven at 155°C. The film was further relaxed by 8% in the transverse direction in an oven at 165°C to give an oriented film. During the production of the film, the production drawing steps were stabilized.

5 Therefore, the film roll was confirmed to correspond to the stable region over the full-length of the film.

【0041】

The obtained film was a 3 layer film consisting of a base layer 23 μm and sealing layers (one side 1 μm), totaling 25
10 μm . A film roll (effective product takeout width 6000 mm, length 24000 m) was divided in 10 equal parts in the width direction and 6 equal parts in the length direction to give a roll product (width 600 mm, length 4000 m).

【0042】

15 Various characteristics of the obtained laminate film are shown in Table 1. From the Table, it is appreciated that the laminate film of the present invention shows a small thickness variation rate, and has superior gloss and processing applicability.

20 【0043】

(Example 2)

In the same manner as in Example 1 except that the resin temperature of (a), (b) was set to 260°C and the temperature of the chill roll was set to 25°C, the laminate film of Example 2
25 was obtained. Various characteristics of the obtained laminate films are shown in Table 1.

【0044】

As compared to Example 1, the laminate films of Example 2 showed a rather high thickness variation rate, but gloss and
30 processability were fine.

【0045】

(Comparative Example 1)

In the same manner as in Example 1 except that the swelling ratio of the resins to be used for the sealing layer

and the base layer were changed as shown in Table 1, the film of Comparative Example 1 was obtained. Various characteristics of the obtained laminate film are shown in Table 1.

【0046】

5 The film of Comparative Example 1 showed a high thickness variation rate, no gloss, and poor bag-making processability.

【0047】

(Comparative Example 2)

10 In the same manner as in Example 1 except that the wind pressure of the air knife was set to 2500 mmH₂O, the laminate film of Comparative Example 2 was obtained. Various characteristics of the obtained laminate film are shown in Table 1.

【0048】

15 The film of Comparative Example 2 showed a high thickness variation rate, no touch of gloss, and poor bag-making processability.

was further relaxed by 8% in the transverse direction in an oven at 165°C to give an oriented film.

【0052】

Then, the sealing layer surface of the obtained film was
5 subjected to a corona discharge treatment to give a three-layer laminate film (base layer 23 μm , one surface of sealing layer 1 μm , totaling 25 μm) showing a wet tension of 39 mN/m of the corona discharge treated surface and an effective product takeout width of 6200 mm.

10 Various characteristics of the obtained laminate film are shown in Table 2. From the Table, it is appreciated that the laminate film of the present invention shows a small thickness variation rate, and has superior heat sealing strength and processing applicability.

15 【0053】

(Example 4)

In the same manner as in Example 3 except that the resin temperature of (a), (b) was set to 260°C and the chill roll temperature was set to 25°C, a laminate film of Example 2 was
20 obtained. Various characteristics of the obtained laminate films are shown in Table 2.

【0054】

While the laminate film of Example 4 showed a greater thickness variation rate as compared to Example 3, the
25 difference in the property between the left and right in the width direction of the product effective takeout width was small and processability was good.

【0055】

(Comparative Example 3)

30 A film of Comparative Example 1 was obtained by changing the swelling ratio of the resins used for the sealing layer and base layer in Example 3 to those shown in Table 2. Various characteristics of the obtained laminate film are shown in Table 2.

【0059】

Table 2

	swelling ratio		product takeout width X (mm)	thickness variation rate Y (%)	thermal shrinkage (%)			thermal shrinkage (%)			gloss (%)	process- ing applica- bility	thickness variation rate Z (%)
	base layer	sealing layer			right end	center	left end	right end	center	left end			
Ex. 3	1.31	1.24	6200	6.2	0.3	0.1	0.4	3.2	3.8	3.1	130	⊙	6.0
Ex. 4	1.31	1.24	6200	7.3	0.5	0.4	0.1	2.9	3.3	3.8	127	O	6.4
Comp. Ex. 3	1.31	1.47	6200	15.5	-0.1	0.1	0.4	3.2	2.2	1.2	120	x	24.7
Comp. Ex. 4	1.31	1.24	6200	20.0	1.0	0.7	0.5	2.5	4.1	3.6	115	x	26.3